

OMB No. 0651-0011

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<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 110.01480101	Serial No.: 10/090,965
	Applicant(s): SRIENC et al.	Confirmation No.: 6415
	Application Filing Date: March 4, 2002	Group: 1652
	Information Disclosure Statement mailed: <i>July 23, 2003</i>	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>YJ</i>	6,329,183	12/11/01	Skraly et al.			

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Document Description

<b>EXAMINER</b> <i>Young</i>	<b>Date Considered</b> <i>4/14/04</i>
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<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 110.01480101	Serial No.: 10/090,965
	Applicants: Srienc et al.	Confirmation No.: 6415
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	Information Disclosure Statement mailed: February 27, 2003	

## U.S. PATENT DOCUMENTS

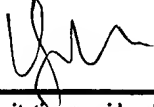
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
Y	5,245,023	09/14/93	Peoples et al.			
Y	5,250,430	10/05/93	Peoples et al.			
Y	5,534,432	07/09/96	Peoples et al.			
Y	6,103,956	08/15/00	Srienc et al.			
Y	6,143,952	11/07/00	Srienc et al.			

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Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
Y	WO 02/070659 A2	09/12/02	PCT				

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Y	Alani et al., "A Method for Gene Disruption That Allows Repeated Use of <i>URA3</i> Selection in the Construction of Multiply Disrupted Yeast Strains," <i>Genetics</i> , 116:541-545 (1987).
Y	Amos, "Poly- $\beta$ -Hydroxyalkanoate Production and Other Physiological Traits of <i>Syntrophomonas Wolfei</i> Subsp. <i>Wolfei</i> " Ph.D. Dissertation, Univ. of Oklahoma, 1989.
Y	Anderlund et al., "Expression of the <i>Escherichia coli pntA</i> and <i>pntB</i> Genes, Encoding Nicotinamide Nucleotide Transhydrogenase, in <i>Saccharomyces cerevisiae</i> and Its Effect on Product Formation During Anaerobic Glucose Fermentation," <i>Appl. Environ. Microbiol.</i> , 1999, June; 65(6):2333-40.
Y	Anderson et al., "Biosynthesis and composition of bacterial poly(hydroxyalkanotes)," <i>Int. J. Biol. Macromol.</i> , 12(2):102-105 (1990).
Y	Ausubel et al., eds., "Boiling Miniprep," <i>Short Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., New York, 3rd Ed., 1995; title page, publication page and pages 1-17 and 1-18.

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Ym	Beck et al., "Divergent Promoters, a Common Form of Gene Organization," <i>Microbiol. Rev.</i> , 1988, Sept.; 52(3):318-326.
Ym	Bell et al., "A two-reporter gene system for the analysis of bi-directional transcription from the divergent <i>MAL6T-MAL6S</i> promoter in <i>Saccharomyces cerevisiae</i> ," <i>Curr. Genet.</i> , 1995; 28(5):441-446.
Ym	Bi et al., "UAS <sub>reg</sub> can function as a heterochromatin boundary element in yeast," <i>Genes &amp; Development</i> , 1999, May 1; 13(9):1089-1101.
Ym	Boles et al., "The role of the NAD-dependent glutamate dehydrogenase in restoring growth on glucose of a <i>Saccharomyces cerevisiae</i> phosphoglucose isomerase mutant," <i>Eur. J. Biochem.</i> , 1993; 217:469-77.
Ym	Boulton et al., "Correlation of Lipid Accumulation in Yeasts with Possession of ATP:Citrate Lyase," <i>J. Gen. Microbiol.</i> , 1981; 127:169-76.
Ym	Brandl et al., "Ability of the phototrophic bacterium <i>Rhodospirillum rubrum</i> to produce various poly( $\beta$ -hydroxyalkanoates): potential sources for biodegradable polyesters," <i>Int. J. Biol. Macromol.</i> , 1989, Feb.; 11(1):49-55.
Ym	Brandl et al., "Plastics from Bacteria and for Bacteria: Poly ( $\beta$ -Hydroxyalkanoates) as Natural, Biocompatible, and Biodegradable Polyesters," <i>Adv. Biochem. Eng. Biotechnol.</i> , 1990; 41:77-93.
Ym	Brandl et al., " <i>Pseudomonas oleovorans</i> as a Source of Poly( $\beta$ -Hydroxyalkanoates) for Potential Applications as Biodegradable Polyesters," <i>Appl. Environ. Microbiol.</i> , 1988, Aug.; 54(8):1977-82.
Ym	Brent et al., "The interaction of yeast citrate synthase with yeast mitochondrial inner membranes," <i>J. Biol. Chem.</i> , 1987, Jan. 5; 262(1):319-25.
Ym	Bruinenberg et al., "A theoretical analysis of NADPH production and consumption in yeasts," <i>J. Gen. Microbiol.</i> , 1983, Apr.; 129(4):953-64.
Ym	Bülow, "Characterization of an artificial bifunctional enzyme, $\beta$ -galactosidase/galactokinase, prepared by gene fusion," <i>Eur. J. Biochem.</i> , 1987; 163:443-8.

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Y	Byrom, "Polymer synthesis by micro-organisms: technology and economics," <i>Trends in Biotechnology</i> , 1987, Sept.; 5:246-50.
Y	Carlson et al., "Utilizing the Bi-directional GAL1-10 Promoter to Co-express Two Genes in <i>Saccharomyces cerevisiae</i> ," Masters Dissertation, 1999 Univ. of Minnesota, St. Paul, MN.
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Y	Carlson et al., "High level poly-beta-hydroxybutyrate production in <i>Saccharomyces cerevisiae</i> , Abstract of Poster Presentation, International Symposium on Biological Polyhydroxyalkanoates, Boston Mass, 2000.
Y	Carlson et al., "Metabolic Pathway Analysis of <i>Saccharomyces cerevisiae</i> Producing Poly-β-hydroxybutyric Acid," Abstract of Oral Presentation, <i>Biotechnology</i> , 2000, International Biotechnology Symposium and Exhibition, Berlin, Germany, 2000.
Y	Carlson et al., "Metabolic Pathway Analysis for rational strain improvement," Oral Presentation, American Institute of Chemical Engineers National Meeting, Los Angeles, CA, Nov. 2000; Technical Program Paper Detail. [online.] AIChE. retrieved from the Internet. Retrieved on 2001-05-09. <URL:http://www.aiche.org/conferences/techprogram/paperdetail.asp?PaperID=2704&DSN=annual...> (2 pg.).
Y	Carlson, "Pathway analysis of <i>Saccharomyces cerevisiae</i> producing polyhydroxybutyrate (PHB) for strain improvement," [available online Mar. 23, 2001.] Biot 77 Abstract of Oral Presentation, ACS Conference, San Diego, CA, Apr. 1-5, 2001.
Y	Carlson et al., "Pathway Analysis for Strain Improvement of <i>Saccharomyces cerevisiae</i> Producing Polyhydroxybutyrate(PHB)" Oral Presentation with Posters, ACS Conference, San Diego, CA Apr. 1-5, 2001. (29 pgs.)

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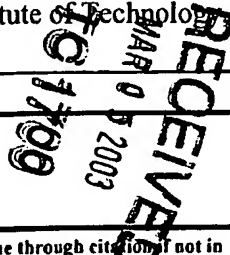
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Y	Carlson et al., "Anaerobic Production of Polyhydroxybutyrate (PHB) in <i>Saccharomyces cerevisiae</i> ," Powerpoint Presentation, American Institute of Chemical Engineers meeting, Reno, NV, Nov. 4-9, 2001 (27 pgs.).
Y	Carlson et al., Metabolic Pathway Analysis of a Recombinant Yeast for Rational Strain Development," <i>Biotechnol. Bioeng.</i> , 79(2):121-134 (2002).
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Y	Choi et al., "Optimization of the expression system using galactose-inducible promoter for the production of anticoagulant hirudin in <i>Saccharomyces cerevisiae</i> ," <i>Appl. Microbiol. Biotechnol.</i> , 1994; 42:587-94.
Y	Chua et al., "Coupling of Waste Water Treatment with Storage Polymer Production," <i>Appl. Biochem. Biotech.</i> , 1997, Spring; 63-65:627-35.
Y	Cigan et al., "Sequence and structural features associated with translational initiator regions in yeast-a review," <i>Gene</i> , 1987; 59:1-18.
Y	Cormack et al., "FACS-optimized mutants of the green fluorescent protein (GFP)," <i>Gene</i> , 1996; 173:33-8.
Y	Cornish-Bowden et al., "From genome to cellular phenotype-a role for metabolic flux analysis?" <i>Nature Biotechnology</i> , 2000 Mar.; 18:267-68.
Y	Cramer et al., "Improved Green Fluorescent Protein by Molecular Evolution Using DNA Shuffling," <i>Nature Biotech.</i> , 1996, Mar.; 14:315-19.
Y	Das et al., "Inhibition of internal entry site (IRES)-mediated translation by a small yeast RNA: a novel strategy to block hepatitis C virus protein synthesis," <i>Frontiers in Bioscience</i> , 1998; 3:1241-52.
Y	Da Silva, "Host-Plasmid Interaction and Regulation of Cloned Gene Expression in Recombinant Cells," Ph.D. Dissertation, California Institute of Technology, Pasadena, CA, 1988.

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Up	Da Silva et al., "Construction and Characterization of a Temperature-Sensitive Expression System in Recombinant Yeast," <i>Biotechnol. Prog.</i> , 1989, Mar.; 5(1):18-26.
Up	Da Silva et al., "Effects of inducer concentration on <i>GAL</i> regulated cloned gene expression in recombinant <i>Saccharomyces cerevisiae</i> ," <i>J. Biotech.</i> , 1989; 10:253-65.
Up	Dawes et al., "The Role and Regulation of Energy Reserve Polymers in Micro-organisms," <i>Advances Microbiol. Physiol.</i> , 1973; 10:135-266.
Up	de Jong-Gubbels et al., "Regulation of Carbon Metabolism in Chemostat Cultures of <i>Saccharomyces cerevisiae</i> Grown on Mixtures of Glucose and Ethanol," <i>Yeast</i> , 1995, Apr. 30; 11(5):407-18.
Up	Dennis et al., "Formation of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) by PHA synthase from <i>Ralstonia eutropha</i> ," <i>J. Biotechnol.</i> , 1998; 64(2-3):177-86.
Up	Dirks et al., "Dicistronic transcription units for gene expression in mammalian cells," <i>Gene</i> , 1993; 128:247-9.
Up	Doran, "II. Homogeneous Reactions," <i>Bioprocess Engineering Principles</i> , Academic Press, San Diego, 1995, cover page, publication page, and 257-96.
Up	Elshourbagy et al., "Cloning and expression of a human ATP-citrate lyase cDNA," <i>Euro. J. Biochem.</i> , 1992, Mar; 204(2):491-9.
Up	Elshourbagy et al., "Rat ATP Citrate-Lyase," <i>J. Biol. Chem.</i> , 1990, Jan. 25; 265(3):1430-5.
Up	Evans et al., "A Comparative Study of Citrate Efflux From Mitochondria of Oleaginous and Non-oleaginous Yeasts," <i>Eur. J. Biochem.</i> , 1983, Jan.; 130(1):195-204.
Up	Fell et al., "Fat synthesis in adipose tissue," <i>Biochem. J.</i> , 1986; 238:781-6.
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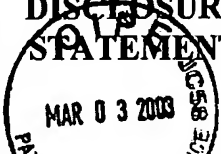
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Yp	Glover, ed., <i>DNA Cloning, Volume 1, a practical approach</i> , IRL Press, Washington D.C., 1985, title page, publication page, table of contents, and page 119.
Yp	Guarente et al., "A <i>GAL10-CYC1</i> hybrid yeast promoter identifies the <i>GAL4</i> regulatory region as an upstream site," <i>Proc. Natl. Acad. Sci. USA</i> , 1982; 79(23):7410-14.
Yp	Hahn et al., "Growth kinetics, nutrient uptake, and expression of the <i>Alcaligenes eutrophus</i> poly(beta-hydroxybutyrate) synthesis pathway in transgenic maize cell suspension cultures," <i>Biotechnol. Prog.</i> , 1997, July/Aug.; 13(4):347-54.
Yp	Hahn "Introduction and Characterization of the Poly(3-Hydroxybutyrate) Biosynthetic Pathway in Plant Cell Cultures," Ph.D. Dissertation, Univ. of Minnesota, St. Paul, MN, 1998.
Yp	Hamilton et al., "Compilation and comparison of the sequence context around the AUG startcodons in <i>Saccharomyces cerevisiae</i> mRNAs," <i>Nucl. Acids Res.</i> , 1987, Apr. 24; 15(8):3581-93.
Yp	Hassan et al., "Effect of organic acid profiles during anaerobic treatment of palm oil mill effluent on the production of polyhydroxyalkanoates by <i>Rhodobacter sphaeroides</i> ," <i>J. Fermentation and Bioengineering</i> , 1996; 82(2):151-6.
Yp	Hassan et al., "The production of polyhydroxyalkanoate from anaerobically treated palm oil mill effluent by <i>Rhodobacter sphaeroides</i> ," <i>J. Fermentation and Bioengineering</i> , 1997; 83(5):485-8.
Yp	Haywood et al., "Characterization of two 3-ketothiolases possessing differing substrate specificities in the polyhydroxyalkanoate synthesizing organism <i>Alcaligenes eutrophus</i> ," <i>FEMS Microbiol. Lett.</i> , 1988; 52:91-6.
Yp	Haywood et al., "The role of NADH- and NADPH-linked acetoacetyl-CoA reductases in the poly-3- hydroxybutyrate synthesizing organism <i>Alcaligenes eutrophus</i> ," <i>FEMS Microbiol. Lett.</i> , 1988; 52(1/2):259-64.
Yp	Haywood et al., "Accumulation of a Polyhydroxyalkanoate Containing Primarily 3-Hydroxydecanoate from Simple Carbohydrate Substrates by <i>Pseudomonas</i> sp. Strain NCIMB 40135," <i>Appl. Environ. Micro.</i> , 1990; 56(11):3354-9.

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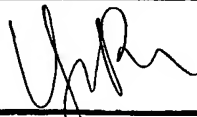
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Yp	Haywood et al., "Accumulation of a poly(hydroxyalkanoate) copolymer containing primarily 3-hydroxyvalerate from simple carbohydrate substrates by <i>Rhodococcus</i> sp. NCIMB 40126," <i>Int'l. J. Biol. Macromol.</i> , 1991, Apr.; 13(2):83-8.
Yp	Hiltunen et al., "Peroxisomal Multifunctional $\beta$ -Oxidation Protein of <i>Saccharomyces cerevisiae</i> ," <i>J. Biol. Chem.</i> , 1992; 267(10):6646-53.
Yp	Hitzeman et al., "Secretion of Human Interferons by Yeast," <i>Science</i> , 1983, Feb. 11; 219(4585):620-5.
Yp	Hrabak, "Industrial production of poly- $\beta$ -hydroxybutyrate.," <i>FEMS Microbiol Rev.</i> , 1992; 103:251-5.
Yp	Huisman et al., "Metabolism of Poly(3-hydroxyalkanoates) (PHAs) by <i>Pseudomonas oleovorans</i> ," <i>J. Biol. Chem.</i> , 1991, Feb. 5; 266(4):2191-8.
Yp	Jackson et al., "Novel Methods to Synthesize Polyhydroxyalkanoates," <i>Annals of the New York Academy of Sciences: Biochemical Engineering VIII</i> , 1994; 745:134-48.
Yp	Jackson, "Recombinant Modulation of the <i>phb</i> CAB Operon Copy Number in <i>Ralstonia eutropha</i> and Modification of the Precursor Selectivity of the <i>Pseudomonas oleovorans</i> Polymerase I," Masters Thesis, Univ. of Minnesota, St. Paul, MN, 1998.
Yp	John et al., "Metabolic pathway engineering in cotton: Biosynthesis of polyhydroxybutyrate in fiber cells," <i>Proc. Nat. Acad. Sci. USA</i> , 1996, Nov. 12; 93(23):12768-73.
Yp	Johnston et al., "Sequences that Regulate the Divergent <i>GAL1-GAL10</i> Promoter in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> , 1984, Aug.; 4(8):1440-8.
Yp	Johnston, "A Model Fungal Gene Regulatory Mechanism: the <i>GAL</i> Genes of <i>Saccharomyces cerevisiae</i> ," <i>Microbiol. Rev.</i> , 1987; 51(4):458-76.
Yp	Keeler, "Plastics grown in bacteria inch toward the market," <i>R&amp;D Magazine</i> , 1991, Jan.; 33:46-52.
Yp	Kelley et al., "Production of Two Phase Polyhydroxyalkanoic Acid Granules in <i>Ralstonia eutropha</i> ," <i>International Journal of Biological Macromolecules</i> , 1999; 25(1-3):61-7.

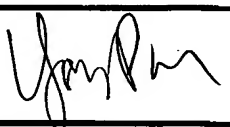
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YB	Kim, "Preparation, Characterization, and Modification of Poly- $\beta$ -hydroxyalkanoates from <i>Pseudomonas Oleovorans</i> ," 1991, Ph.D. Thesis, Univ. of Massachusetts, Amherst.
YB	Kim, "Poly( $\beta$ -hydroxyalkanoate) Copolymers Containing Brominated Repeating Units Produced by <i>Pseudomonas oleovorans</i> ," <i>Macromolecules</i> , 1992, Mar. 30; 25(7):1852-7.
YB	Kristiansen, Ed., <i>Integrated Design of a Fermentation Plant: The Production of Baker's Yeast</i> , VCH, New York, 1994; title page, publication page, and pages 1-26.
YB	Kuchel et al., <i>Schaum's Outline of Theory and Problems of Biochemistry</i> , McGraw-Hill, Inc., New York, 1988, title page, publication page, and table of contents only; 6 pgs.
YB	Lafferty et al., "Chapter 6: Microbial production of poly- $\beta$ -hydroxybutyric acid," <i>Biotechnology</i> , Rehm et al., eds., VCH, Weinheim, Germany, 1988; Volume 6b, title page and pages 135-76.
YB	Lageveen et al., "Formation of Polyesters by <i>Pseudomonas oleovorans</i> : Effect of Substrates on Formation and Composition of Poly-(R)-3-Hydroxyalkanoates and Poly-(R)-3-Hydroxyalkenoates," <i>Appl. Environ. Microbiol.</i> , 1988, July; 54(12):2924-32.
YB	Lagunas, "Misconceptions about the energy metabolism of <i>Saccharomyces cerevisiae</i> ," <i>Yeast</i> , 1986; 2(4):221-8.
YB	Leaf et al., " <i>Saccharomyces cerevisiae</i> expressing bacterial polyhydroxybutyrate synthase produces poly-3-hydroxybutyrate," <i>Microbiol.</i> , 1996; 142:1169-1180.
YB	Leaf, "Engineering Yeast for Polyhydroxybutyrate Production," Ph.D. Dissertation, University of Minnesota, St. Paul, MN, 1998.
YB	Leaf, "Engineering yeast for polyhydroxybutyrate production," <i>Dissertation Abstracts International</i> , 1999, Feb; 59(8):4287-B/88B.
YB	Lee et al., "Production of poly(3-hydroxybutyric acid) by recombinant <i>Escherichia coli</i> strains: genetic and fermentation studies," <i>Can. J. Microbiol.</i> , 1995; 41(1):207-15.

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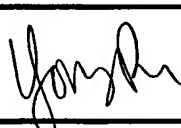
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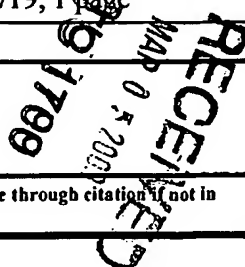
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Up	Lee, "Review: Bacterial Polyhydroxyalkanoates," <i>Biotechnol. Bioeng.</i> , 1996; 49:1-14.
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Up	Lee et al., "Production of biodegradable thermoplastics from municipal sludge by a two-stage bioprocess," <i>Resources, Conservation and Recycling</i> , 1997; 19(3):151-64.
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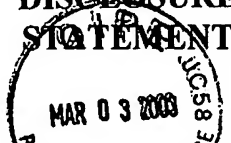


<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty: Docket No.: 110.01480101	Serial No.: 10/090,965
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Examiner Initial	Document Description
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YB	Poirier et al., "Polyhydroxybutyrate, a Biodegradable Thermoplastic, Produced in Transgenic Plants," <i>Science</i> , 1992, Apr. 24; 256:520-3.
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Examiner Initial	Document Description
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YB	Robzyk et al., "A simple and highly efficient procedure for rescuing autonomous plamids from yeast," <i>Nucleic Acids Research</i> , 1992, July 25; 20(14):3790.
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Atty: Docket No.: 110.01480101

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Applicants: Srienc et al.

Confirmation No.: 6415

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YB	Shore, "RAP1: a protean regulator in yeast," <i>Trends in Genetics</i> , 1994; 10(11):408-12.
YB	Sierkstra et al., "Regulation of Glycolytic Enzymes and the Crabtree Effect in Galactose-Limited Continuous Cultures of <i>Saccharomyces cerevisiae</i> ," <i>Yeast</i> , 1993; 9:787-95.

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Y	Soni et al., "Parameters affecting lithium acetate-mediated transformation of <i>Saccharomyces cerevisiae</i> and development of a rapid and simplified procedure," <i>Curr. Genet.</i> , 1993, Nov.; 24(5):455-9.
Y	Srienc et al., "Characterization of Intracellular Accumulation of Poly- $\beta$ -Hydroxybutyrate (PHB) in Individual Cells of <i>Alcaligenes eutrophus</i> H16 by Flow cytometry," <i>Biotech. Bioeng.</i> , 1984, Aug.; 26(8):982-7.
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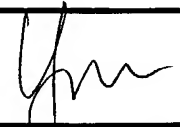
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YB	Takeda et al., "Biosynthesis of poly(3-hydroxybutyrate-Co-3-hydroxyvalerate) by a mutant of <i>Sphaerotilus natans</i> ," <i>Appl. Microbiol. Biotechnol.</i> , 1995, Dec.; 44(1/2):37-42.
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YB	Tour et al., "Spiro-Fused Conducting Polymers for Molecular Electronics," <i>Polymer Preprints</i> , 1990, Apr.; 31(1):408-9.
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YB	Ulmer, "The Production and Characterization of Bacterially Produced Poly( $\beta$ -hydroxyalkanoates), PHAS," Ph.D. Dissertation, 1992, Feb., Univ. of Massachusetts.
YB	Vallino et al., "Chapter 18: Flux determination in cellular bioreaction networks: applications to lysine fermentations," <i>Frontiers in Bioprocessing</i> , Sikdar et al., Eds., CRC Press, Inc.; Boca Raton, FL; 1990; title page, publication page and pages 205-19.
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YB	Vallino et al., "Carbon flux distributions at the glucose 6-phosphate branch point in <i>Corynebacterium glutamicum</i> during lysine overproduction," <i>Biotechnol. Prog.</i> , 1994, May/June; 10(3):327-34.
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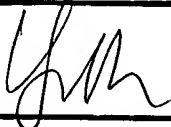
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Yb	van Gulik et al., "A Metabolic Network Stoichiometry Analysis of Microbial Growth and Product Formation," <i>Biotech. Bioeng.</i> , 1995, Dec. 20; 48(6):681-98.
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Yb	von Bodman et al., "Expression of Multiple Eukaryotic Genes from a Single Promoter in <i>Nicotiana</i> ," <i>Bio/Tech.</i> , 1995; 13(6):587-91.
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